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	Application No.	Applicant(s)
Notice of Allewshility	09/831,346	HUI, SIEW KOK
Notice of Allowability	Examiner	Art Unit
	David B. Lugo	2637
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 6/20/05</u> .		
2. The allowed claim(s) is/are 1,3-9,14-16 and 18-42.		
3. The drawings filed on 11 May 2001 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☑ Examiner's Amendn	e

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 3, in the equation in the next to last line of the claim, the symbol " \square " has been replaced with the summation symbol -- Σ --.

The above change has been made to include the summation symbol in the equation as shown in the original claims.

Allowable Subject Matter

- 2. Claims 1, 3-9, 14-16 and 18-42 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach a receiver having an array of sensors that processes received signals using a first adaptive filter that enhances a target signal, a second adaptive filter that suppresses an unwanted signal, processes the filtered signals in a frequency to domain to further suppress the unwanted signal, determines a direction of arrival of the target signal, and treats a signal of the received signals as an unwanted signal if the signal has not impinged on the array from within a selected angular range, as recited in claim 1.

The prior art of record also fails to teach a receiver having an array of sensors that processes received signals using a first adaptive filter that enhances a target signal, a second adaptive filter that suppresses an unwanted signal, processes the filtered signals in a frequency to

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domain to further suppress the unwanted signal, and determines a signal energy from the received signals and a noise energy from the signal energy, where the signal energy is estimated according to the equation of claim 3.

The prior art of record further fails to teach a receiver having an array of sensors that processes received signals using a first adaptive filter that enhances a target signal, a second adaptive filter that suppresses an unwanted signal, processes the filtered signals in a frequency to domain to further suppress the unwanted signal, determines a signal energy from the received signals and a noise energy from the signal energy, where the noise energy is calculated according to the equation of claim 4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David B. Lugo whose telephone number is 571-272-3043. The examiner can normally be reached on M-F; 9:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Lugo 8/16/05

Wangnantun KHAITRAN PRIMARY EXAMINER